

UNITED STATES DETARTMENT OF COMMERCE Patent and Trademark Offic

Address: COMMISSIONER OF PATENTS AND TRADEMARKS

Washington, D.C. 20231

VB

APPLICATION NO.	FILING DATE FIRST NAMED INVENTOR		AT	ATTORNEY DOCKET NO.	
_			EXAMINER		
		7			
		}	ART UNIT	PAPER NUMBER	
				8	
			DATE MAILED:		

PI ase find below and/or attached an Office communication concerning this application or pr ceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No. 09/527,188

Applicant(s)

Glenn et al.

Examiner

Gerald Ewoldt

Group Art Unit 1644



Responsive to communication(s) filed on Feb 25, 2000	·
This action is FINAL .	
Since this application is in condition for allowance except in accordance with the practice under <i>Ex parte Quayle</i> , 15	for formal matters, prosecution as to the merits is closed 935 C.D. 11; 453 O.G. 213.
shortened statutory period for response to this action is se longer, from the mailing date of this communication. Failu oplication to become abandoned. (35 U.S.C. § 133). Exter 7 CFR 1.136(a).	re to respond within the period for response will cause the
isposition of Claims	
X Claim(s) 1-59	is/are pending in the application.
Of the above, claim(s)	is/are withdrawn from consideration.
Claim(s)	
Claim(s)	is/are rejected.
Claim(s)	
X Claims <u>1-59</u>	
pplication Papers	
☐ See the attached Notice of Draftsperson's Patent Draw	ring Review, PTO-948.
☐ The drawing(s) filed on is/are objection	ected to by the Examiner.
The proposed drawing correction, filed on	is approved disapproved.
☐ The specification is objected to by the Examiner.	
\square The oath or declaration is objected to by the Examiner.	
iority under 35 U.S.C. § 119	
\square Acknowledgement is made of a claim for foreign priorit	ty under 35 U.S.C. § 119(a)-(d).
☐ All ☐ Some* ☐ None of the CERTIFIED copies	of the priority documents have been
received.	
received in Application No. (Series Code/Serial N	lumber)
\equiv received in this national stage application from the	
*Certified copies not received:	
Acknowledgement is made of a claim for domestic prior	prity under 35 U.S.C. § 119(e).
tachment(s)	
☐ Notice of References Cited, PTO-892	
Information Disclosure Statement(s), PTO-1449, Paper	No(s)
Interview Summary, PTO-413	
Notice of Draftsperson's Patent Drawing Review, PTO-	948
Notice of Informal Patent Application, PTO-152	
& Fan Trusmettel Form.	

--- SEE OFFICE ACTION ON THE FOLLOWING PAGES ---

DETAILED ACTION

- 1. Please Note: In an effort to enhance communication with our customers and reduce processing time, Group 1640 is running a Fax Response Pilot for Written Restriction Requirements. A dedicated Fax machine is in place to receive your responses. The Fax number is 703-305-3704. A Fax cover sheet is attached to this Office Action for your convenience. We encourage your participation in this Pilot program. If you have any questions or suggestions please contact Paula Hutzell, Ph.D., Supervisory Patent Examiner at Paula.Hutzell@uspto.gov or 703-308-4310. Thank you in advance for allowing us to enhance our customer service. Please limit the use of this dedicated Fax number to responses to Written Restrictions.
- 2. Restriction to one of the following inventions is required under 35 U.S.C. § 121:
- I. Claims 1-34, 36-37, 39-46, 50-51, 55, and 57, drawn to a method of inducing an enhanced immune response to a tumor antigen, classified in Class 424, subclasses 277.1, 278.1 and 283.1.
- II. Claims 1-34, 37, 39-45, 50-51, 55, and 57, drawn to a method of inducing an enhanced immune response to an antigen derived from a normal cell, classified in Class 424, subclasses 278.1 and 283.1.
- III. Claims 1-37, 39-46, 50-51, 55, and 57, drawn to a method of inducing an enhanced immune response to a bacterial antigen, classified in Class 424, subclasses 234.1, 278.1 and 283.1.
- IV. Claims 1-46, 50-51, 55, and 57, drawn to a method of inducing an enhanced immune response to a viral antigen, classified in Class 424, subclasses 204.1, 278.1 and 283.1.
- V. Claims 1-37, 39-46, 50-51, 55, and 57, drawn to a method of inducing an enhanced immune response to a fungal antigen, classified in Class 424, subclasses 278.1 and 283.1.
- VI. Claims 1-37, 39-46, 50-51, 55, and 57, drawn to a method of inducing an enhanced immune response to a parasite, classified in Class 424, subclasses 265.1, 278.1 and 283.1.
- VII. Claims 1-37, 39-46, 50-51, 55, and 57, drawn to a method of inducing an enhanced immune response to an autoantigen, classified in Class 424, subclasses 278.1 and 283.1.

- VIII. Claims 1-37, 39-46, 50-51, 55, and 57, drawn to a method of inducing an enhanced immune response to an allergen, classified in Class 424, subclasses 275.1, 278.1 and 283.1.
- IX. Claims 1-34, 36, 39-49, 50-51, 55, and 57, drawn to a method of inducing an enhanced immune response to a tumor antigen encoded by a nucleic acid, classified in Class 424, subclasses 278.1 and 283.1 and Class 514, subclass 44.
- X. Claims 1-34, 39-49, 50-51, 55, and 57, drawn to a method of inducing an enhanced immune response to an antigen derived from a normal cell encoded by a nucleic acid, classified in Class 424, subclasses 278.1 and 283.1 and Class 514, subclass 44.
- XI. Claims 1-36, 39-49, 50-51, 55, and 57, drawn to a method of inducing an enhanced immune response to a bacterial antigen encoded by a nucleic acid, classified in Class 424, subclasses 278.1 and 283.1 and Class 514, subclass 44..
- XII. Claims 1-36, 38-46, 50-51, 55, and 57, drawn to a method of inducing an enhanced immune response to a viral antigen encoded by a nucleic acid, classified in Class 424, subclasses 278.1 and 283.1 and Class 514, subclass 44.
- XIII. Claims 1-36, 39-49, 50-51, 55, and 57, drawn to a method of inducing an enhanced immune response to a fungal antigen encoded by a nucleic acid, classified in Class 424, subclasses 278.1 and 283.1 and Class 514, subclass 44.
- XIV. Claims 1-36, 39-49, 50-51, 55, and 57, drawn to a method of inducing an enhanced immune response to a parasite encoded by a nucleic acid, classified in Class 424, subclasses 278.1 and 283.1 and Class 514, subclass 44.
- XV. Claims 1-36, 39-49, 50-51, 55, and 57, drawn to a method of inducing an enhanced immune response to an autoantigen encoded by a nucleic acid, classified in Class 424, subclasses 278.1 and 283.1 and Class 514, subclass 44.
- XVI. Claims 1-36, 39-49, 50-51, 55, and 57, drawn to a method of inducing an enhanced immune response to an allergen encoded by a nucleic acid, classified in Class 424, subclasses 278.1 and 283.1 and 28
- XVII. Claims 52-54, drawn to an article for vaccine administration, classified in Class 424, subclasses 278.1 and 283.1 and Class 514, subclass 44.

XVIII. Claim 56, drawn to a method of preventing a disease, classified in Class 424, subclasses 278.1 and 283.1 and Class 514, subclass 44.

XIX. Claims 58-59, drawn to a composition, classified in Class 424, subclasses 278.1 and 283.1 and Class 514, subclass 44.

The inventions are distinct, each from the other because:

- 3. Inventions I-XVI and XVIII are different methods. These inventions require different reagents acting through different process steps, with different modes of operation, different endpoints, and/or different outcomes. Therefore they are patentably distinct.
- Inventions XVII and XIX are related as mutually exclusive species in an intermediate-final product relationship. Distinctness is proven for claims in this relationship if the intermediate product is useful to make other than the final product (MPEP § 806.04(b), 3rd paragraph), and the species are patentably distinct (MPEP S 306.04(h)). In the instant case, the intermediate product is deemed to be useful as a vaccine and the inventions are deemed patentably distinct since there is nothing on this record to show them to be obvious variants. Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions anticipated by the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.
- 5. Inventions XIX and (I-XVI and XVIII) are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (M.P.E.P. § 806.05(h)).

In the instant case, the product as claimed can be used in a materially different process such as in $in\ vitro\ assays.$

6. Because these inventions are distinct for the reasons given above and Groups I-XIX have acquired a separate status in the art as shown by their different classification and/or the searches are not co-extensive and because the Groups encompass divergent

subject matter, restriction for examination purposes as indicated is proper.

- 7. Should Applicant elect any of Groups I-XVI, Applicant is further required under 35 U.S.C. § 121 to elect a **specific** method of pretreatment comprising a **specific** adjuvant, such as one listed in Claims 22 or 44-46.
- 8. Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

The different adjuvants, such as cholera toxin or chemokines, elicit different immune responses of different classes. Therefore, the species of Groups I and V are independent and patentable over one another.

- 9. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).
- 10. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 C.F.R. § 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a diligently-filed petition under 37 C.F.R. § 1.48(b) and by the fee required under 37 C.F.R. § 1.17(h).
- 11. Applicant is advised that no references were received with the IDS form PTO-1449, received 12/29/99. Submission or resubmission of said references would expedite prosecution.
- 12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gerald Ewoldt whose telephone number is (703) 308-9805. The examiner can normally be reached Monday through Friday from 8:30 am to 5:00 pm. A message may be left on the examiner's voice mail service. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina Chan can be reached on (703) 308-3973. Any inquiry of a general nature or relating to the status of this application should be directed to

the Technology Center 1600 receptionist whose telephone number is $(703)\ 308-0196$.

Papers related to this application may be submitted to Technology Center 1600 by facsimile transmission. Papers should be faxed to Technology Center 1600 via the PTO Fax Center located in Crystal Mall 1. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The CM1 Fax Center telephone number is (703) 305-3014.

G.R. Ewoldt, Ph.D. Patent Examiner Technology Center 1600 December 5, 2000 Patrick J. Nolan, Ph.D. Primary Examiner Technology Center 1600

Patrick J. No Com